

**What is claimed is:**

- 1        1.        A cooling system adapted to be used with an article of clothing comprising:
  - 2                a.        a canister having an outlet valve, said canister being filled with a cooling
  - 3                agent in its gaseous or vapor state and having a gas-impermeable surface;
  - 4                b.        a regulator connected to said outlet valve, said regulator adapted to open said
  - 5                outlet valve to a plurality of positions and to close said outlet valve, and
  - 6                c.        at least one supply line in fluid communication with said outlet valve, said at
  - 7                least one supply line being disposed within an article of clothing and having an open
  - 8                distal end located at an optimal release point,
  - 9        wherein, when said regulator opens said outlet valve, said coolant agent is released from said
  - 10       canister, introduced into said at least one supply line and exits through said open distal end
  - 11       of said at least one supply line, thereby delivering said cooling agent to said optimal release
  - 12       point.
- 1       2.       The cooling system in accordance with claim 1, wherein said canister is a removable
- 2       canister which can be replaced with a new canister containing said cooling agent.
- 1       3.       The cooling system in accordance with claim 1, wherein said cooling agent is a
- 2       vapor-based refrigerant.
- 1       4.       The cooling system in accordance with claim 3, wherein said cooling agent is
- 2       tetrafluroethane.
- 1       5.       The cooling system in accordance with claim 2, wherein said canister is attached to
- 2       an article of clothing by securing means.
- 1       6.       The cooling system in accordance with claim 5, wherein said securing means includes
- 2       hook and loop type fastening.

1        7.        The cooling system in accordance with claim 1, wherein said canister has an inlet  
2 opening and further comprising:

3            d.        a refill valve in fluid communication with said inlet opening.

1        8.        The cooling system in accordance with claim 7, wherein said canister can be re-  
2 charged with cooling agent by introducing cooling agent through said refill valve.

1        9.        The cooling system in accordance with claim 7, wherein said cooling agent is a  
2 vapor-based refrigerant.

1        10.      The cooling system in accordance with claim 9, wherein said cooling agent is  
2 tetrafluroethane.

1        11.      The cooling system in accordance with claim 1, wherein said regulator is provided  
2 with an OFF position, a LOW position, a MEDIUM position, and a HIGH position in order  
3 to adjust the flow of cooling agent to said at least one supply line.

1        12.      The cooling system in accordance with claim 1, wherein said at least one supply line  
2 is a plurality of supply lines.

1           13.     A baseball cap adapted to provide the wearer with a cooling environment, said  
2     baseball cap comprising:

3           a.     a visor;

4           b.     a crown area having a front area, a rear area and side areas, and

5           c.     a cooling system, said cooling system comprising:

6                 (1)     a canister having an outlet valve, said canister being filled with a  
7                     cooling agent in its gaseous or vapor state and having a gas-impermeable  
8                     surface;

9                 (2)     a regulator connected to said outlet valve, said regulator adapted to  
10                    open said outlet valve to a plurality of positions and to close said outlet valve,  
11                    and

12                (3)     at least one supply line in fluid communication with said outlet valve,  
13                    said at least one supply line being disposed within said baseball cap and  
14                    having an open distal end located at an optimal release point within said  
15                    crown of said baseball cap,

16     wherein, when said regulator opens said outlet valve, said coolant agent is released from said  
17     canister, introduced into said at least one supply line and exits through said open distal end  
18     of said at least one supply line, thereby delivering said cooling agent to said optimal release  
19     point.

1           14.     The cooling system in accordance with claim 13, wherein said at least one supply line  
2     is a plurality of supply lines, said open distal end of each of said plurality of supply lines  
3     being disposed within said crown of said baseball cap in such a manner that each open distal  
4     end is located at an optimal release point.

1           15.     The cooling system in accordance with claim 13, wherein said canister has an inlet  
2     opening and further comprising:

3           d.     a refill valve in fluid communication with said inlet opening.

1        16.    The cooling system in accordance with claim 15, wherein said canister can be re-  
2        charged with cooling agent by introducing cooling agent through said refill valve.

1        17.    The cooling system in accordance with claim 13, wherein said cooling agent is a  
2        vapor-based refrigerant.

1        18.    The cooling system in accordance with claim 17, wherein said cooling agent is  
2        tetrafluroethane.

1        19.    The cooling system in accordance with claim 13, wherein said regulator is provided  
2        with an OFF position, a LOW position, a MEDIUM position, and a HIGH position in order  
3        to adjust the flow of cooling agent to said at least one supply line.

1        20.    The cooling system in accordance with claim 1, wherein said baseball cap is coated  
2        with a water-proofing polymer.